## **DATA SHEET**

Checked by

Date

22/10/2024

## Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 13089363 Efficiency Three-Phase : 143/5TC Locked rotor time Frame : 18s (cold) 10s (hot) Output : 2 HP (1.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : 4 Frequency : 60 Hz Ambient temperature : -20°C to +40°C : 1000 m.a.s.l. Rated voltage : 575 V Altitude Rated current Protection degree : IP56 : 2.23 A : IC411 - TEFC L. R. Amperes : 18.5 A Cooling method LRC : 8.3x(Code L) Mounting : F-1 No load current : 1.30 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1750 rpm Noise level<sup>2</sup> : 51.0 dB(A) Slip : 2.78 % Starting method : Direct On Line Rated torque : 0.829 kgfm Approx. weight<sup>3</sup> : 27.4 kg Locked rotor torque : 270 % Breakdown torque : 320 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.0066 kgm<sup>2</sup> Design : B 75% 100% Output 50% Foundation loads Efficiency (%) 85.5 86.5 86.5 Max. traction : 62 kgf Power Factor 0.57 0.70 0.78 Max. compression : 89 kgf Losses at normative operating points (speed;torque), in percentage of rated output power P2 (0,5;1,0) P4 (0,9;0,5) P1 (0,9;1,0) P3 (0,25;1,0) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) 15.0 12.8 12.1 8.4 6.0 4.7 3.5 Drive end Non drive end Bearing type 6205 C3 6204 C3 Inpro/Seal Inpro/Seal Sealing 20000 h 20000 h Lubrication interval Lubricant amount 4 g 4 g Lubricant type Mobil Polyrex EM Notes This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load. Performed Checked Rev. **Changes Summary** Date Performed by

Page

1/2

Revision

## LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

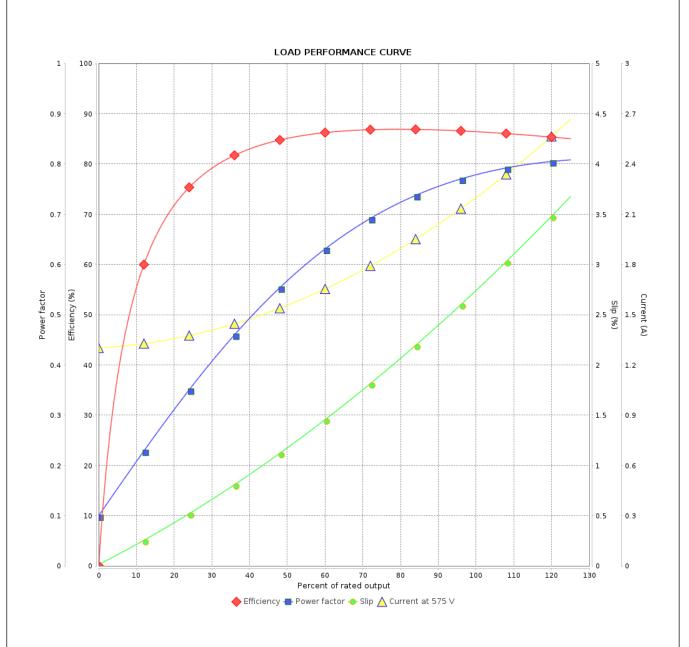
Date

22/10/2024

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 13089363



Performance	: 5	575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		2.23 A 3.3 0.829 kgfm 270 % 320 % 1750 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
Rev.	Changes Summary			Performed	Checked	Date
	•	·				
Performed by						

Page

2/2

Revision

